

**ABSTRACT**

[0045] One embodiment comprises receiving a plurality of requests for service from a client; identifying a respective servlet for each of the plurality of requests and a class corresponding to each of the respective servlets; and providing a separate virtual machine for each of the respective servlets, wherein if a virtual machine is available then reusing the available virtual machine by a single thread by loading the virtual machine to instantiate a thread corresponding to the requested service, and wherein the virtual machine is available if the virtual machine has a matching process identification and thread identification and is not busy, and if no virtual machine is available then spawning and loading a new virtual machine to instantiate the thread corresponding to the requested service, and wherein no virtual machine is available if either the virtual machine does not have the matching process identification and thread identification or is busy.